

## EAST SEARCH

12/20/2007

L#	Hits	Search String	Databases
S1	170	(wire near2 (packing or harness)) with ((outside or outer) near2 diameter)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S2	4	S1 and ((bundle or bundled or bundling or pack or packed or packing) with ((plural	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S3	68	S1 and ((bundle or bundled or bundling or pack or packed or packing) with wire)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S4	18	S1 and (circular near2 shape)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S5	10	S1 and ((overlap or overlapped or overlapping) with wire)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S6	5	S1 and ((include or included or including) with circle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S7	7	S1 and ((plurality or several) with circle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S8	23	S1 and ("cross sectional" near2 shape)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S9	4	S1 and (target near2 circle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S10	5	S1 and ((protrude or protruded or protruding) with circle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S11	8	S1 and ((insert or inserted or inserting or insertion) with circle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S17	5	S1 and (voronoi)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S12	3	S1 and ((overlap or overlapped or overlapping) with circle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S13	3	S1 and (layout with circle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S14	31	S1 and (wire near2 shape)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S15	10	S1 and (diameter with circle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S16	5	S1 and (voronoi near2 diagram)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S18	2	S1 and (boundary with edge with circle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S19	4	S1 and (boundary with edge)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S20	2	S1 and (boundary with circle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S21	2	S1 and (edge with circle)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S22	88	S2 or S3 or S4 or S5 or S6 or S7 or S8 or S9 or S10 or S11 or S12 or S13 or S14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S23	10	S22 and S5	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S25	5	S22 and S10	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S27	3	S22 and S13	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S24	4	S22 and S9	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S28	5	S22 and S16	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S26	8	S22 and S11	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB
S29	4	(wire near2 (packing or harness)) same (voronoi near2 diagram)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB

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## Results of search set L10: value change dump

Document	Document ID	Title	Source	Issue Date	Current OR	Abstract
US 20070225448 A1		Sealing material	20070927		16 525/329.7	
US 20070221448 A1		Sealing material	20070927		16 184/106	

US 20070186635 A1	Tire information communication device	20070816	18 73/146
US 20070110914 A1	Wire harness arranging-purpose wire holding member and wire harness arranging	20070517	25 427/434.6
US 20060286826 A1	Joint member and joint connector for wire harness	20061221	62 439/67
US 20060155074 A1	Sealing material	20060713	17 525/329.7
US 20060141823 A1	Estimating method and apparatus and estimating program of wire harness and rec	20060629	21 439/76.2
US 20060096372 A1	Method of calculating a wire packing diameter, apparatus therefor, and program th	20060511	17 73/432.1
US 20060081029 A1	Crimp state estimation apparatus for crimp contact terminal and quality determinati	20060420	26 72/17.3
US 20060021785 A1	Cable and cable identifying method	20060202	26 174/112
US 20050197810 A1	Calculation method for packing wire materials, calculation apparatus using the sam	20050908	32 703/6
US 20050150680 A1	Calculation method for packing a plurality of wires and calculation apparatus using	20050714	27 174/128.1
US 20050106903 A1	Joint member and joint connector for wire harness	20050519	66 439/67
US 20050061531 A1	Grommet and grommet-mounting structure	20050324	34 174/659
US 20040222007 A1	Grommet, water-stop structure of wire harness and method of producing wire harne	20041111	13 174/650
US 20040221634 A1	Crimp state estimation apparatus for crimp contact terminal and quality determinati	20041111	26 72/17.2
US 20040139631 A1	Snow removal machine	20040722	19 37/242
US 20030222183 A1	Device for fixing wire harness	20031204	10 248/49
US 20030217860 A1	Wire Harness for removing from a vehicle	20031127	17 174/72A
US 20030207597 A1	Wire harness for removing from a vehicle	20031106	17 439/34
US 20030184119 A1	Power supply apparatus for slide door in motor vehicle	20031002	22 296/155
US 20030098171 A1	Grommet	20030529	8 174/663
US 20030030206 A1	Wire harness arranging-purpose wire holding member and wire harness arranging	20030213	26 269/329
US 20030014924 A1	Grommet	20030123	7 52/1
US 20030006523 A1	Method of manufacturing waterproof wire harness	20030109	12 264/136
US 20020195267 A1	Method of waterproofing wire harness	20021226	12 174/152G
US 20020185297 A1	Construction for preventing water from penetrating between electric wires inserted	20021212	10 174/650
US 20020129962 A1	Harness slack absorbing apparatus	20020919	13 174/72A
US 20020005014 A1	Power supply apparatus for slide door in motor vehicle	20020117	22 49/360
US 20010052203 A1	Power supply structure in sliding structure	20011220	29 49/502
US 20010044984 A1	Grommet	20011129	15 16/2.5
US 7102080 B2	Grommet, water-stop structure of wire harness and method of producing wire harne	20060905	12 174/650
US 7086261 B2	Crimp state estimation apparatus for crimp contact terminal and quality determinati	20060808	25 72/17.3
US 7036226 B2	Crimp state estimation apparatus for crimp contact terminal and quality determinati	20060502	25 29/863
US 6977340 B2	Grommet and grommet-mounting structure	20051220	33 174/667
US 6941714 B2	Grommet	20050913	7 52/395
US 6890464 B2	Method of manufacturing waterproof wire harness	20050510	11 264/134
US 6834448 B2	Snow removal machine	20041228	19 37/223
US 6830225 B2	Device for fixing wire harness	20041214	10 248/49
US 6811404 B2	Power supply apparatus for slide door in motor vehicle	20041102	21 439/34
US 6727432 B2	Grommet	20040427	8 174/663
US 6708366 B2	Grommet	20040323	14 16/2.5
US 6696646 B2	Construction for preventing water from penetrating between electric wires inserted	20040224	9 174/650
US 6624361 B2	Method of waterproofing wire harness	20030923	12 174/152G
US 6610929 B1	Wire harness for removing from a vehicle	20030826	16 174/72A
US 6603076 B2	Power supply structure in sliding structure	20030805	29 174/72A
US 6575760 B2	Power supply apparatus for slide door in motor vehicle	20030610	21 439/34
US 6570093 B2	Harness slack absorbing apparatus	20030527	13 174/72A

US 6429544 B1	Electrical equipment module	20020806	24 307/10.1
US 6330746 B1	Method of determining the length of electric wires for use in constructing a wire har	20111218	20 29/872
US 6240597 B1	Grommet having a resilient flange	20010605	19 16/2.1
US 6231369 B1	Bolted type connector	20010515	16 439/364
US 6211464 B1	Grommet having resilient flange for mounting on a panel	20010403	20 174/659
US 6051789 A	Corrugated tube and wire harness having the tube as a cover	20000418	9 174/68.3
US 6017176 A	Adhesive-dispensing fastener	20000125	17 411/82
US 6010134 A	Sealed grommet for wire harnesses having a split cylindrical core member with a c	20000104	8 277/615
US 5940962 A	Wire harness bundling method	19990824	15 29/825
US 5423647 A	Stud bolt clip	19950613	10 411/433
US 5216205 A	Wire conductor for harness	19930601	6 174/128.1
US 5122741 A	Holding members for sensor and wiring members of magnetic rotary encoder	19920616	12 324/207.13
US 4969497 A	Strand for reinforcing objects made of polymer material	19901113	7 152/451
US 4862927 A	Double-ended termination and routing arrangement for an automated wiring system	19890905	13 140/92.1
US 4818631 A	Strand for application as reinforcement in objects of polymer material as well as on	19890404	6 428/605
JP 2005235506 A	WIRE ROD PACKING CALCULATION METHOD, DEVICE FOR THE SAME, AND	20050902	23
JP 2004146254 A	MANUFACTURING METHOD AND WATER CUT-OFF METHOD OF WIRE HAR	20040520	
JP 2004127917 A	WIRE PACKING CALCULATION METHOD, DEVICE FOR THE SAME, AND PRO	20040422	17
JP 2003045254 A	CABLE HOLDING MEMBER FOR WATERPROOFING TREATMENT OF WIRE H	20030214	5
JP 2003016859 A	MANUFACTURING METHOD OF WATERPROOF WIRE HARNESS	20030117	
JP 2002367452 A	MANUFACTURING METHOD FOR WATERPROOF WIRE HARNESS	20021220	
JP 2002315138 A	HEAT RESISTING PROTECTIVE STRUCTURE FOR WIRE HARNESS	20021025	
JP 200251550 A	MOUNTING STRUCTURE OF GROMMET AND GROMMET	20000914	
JP 11234846 A	FOLDING SHRINKABLE TUBE	19990827	
JP 11205944 A	STRUCTURE OF INSTALLING CORRUGATED TUBE ON WIRE HARNESS BRAI	19990730	
JP 08153418 A	WIRE HARNESS WITH ELECTRIC EQUIPMENT	19960611	
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JP 07243558 A	WIRE BUNDLING TOOL FOR WIRE HARNESS AND METHOD FOR BUNDLING	19950919	
JP 07163034 A	METHOD OF MOUNTING GROMMET FOR WIRE HARNESS	19950623	
JP 07141919 A	STRUCTURE AND METHOD FOR WATERPROOFING WIRE HARNESS	19950602	
JP 06276641 A	WATERPROOFING STRUCTURE FOR WIRE HARNESS	19940930	6
WO 2004013778 A2	METHOD OF CALCULATING A WIRE PACKING, APPARATUS THEREFOR, ANI	20040212	50
WO 2004013778 A	Wire packing outer diameter calculating method, involves inserting insertion trial ci	20040212	17
JP 2004014276 A	Water proof processing method of wire harness in motor vehicle, bundles and com	20040115	
KR 2004003743 A	Apparatus for controlling coiling shape of wire rod coil	20040113	
US 20030006523 A	Manufacture of waterproof wire harness for use in electric wiring for vehicle by prov	20030109	
JP 200311534 A	Wire harness for motor vehicle, has grommet installed around outer circumferentia	20001107	4
JP 2000269664 A	Packing material for wire harness in motor vehicle, is a tube whose outer diameter	20000929	
JP 2000251550 A	Grommet mounting structure for motor vehicle has bundled portion whose periphei	20000914	
US 3013742 A	Wire packaging machine and method	19611219	242/361.3